

G3G180-AD43-71

EC centrifugal fan

forward curved, single inlet
with housing (without flange)

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Nominal data

Type	G3G180-AD43-71	
Motor	M3G084-FA	
Phase		1~
Nominal voltage	[VAC]	230
Nominal voltage range	[VAC]	200 .. 277
Frequency	[Hz]	50/60
Type of data definition		ml
Valid for approval / standard		UL508
Speed	[min ⁻¹]	2450
Power input	[W]	510
Current draw	[A]	3.15
Min. back pressure	[Pa]	300
Min. ambient temperature	[°C]	-25
Max. ambient temperature	[°C]	50

ml = max. load · me = max. efficiency · rfa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

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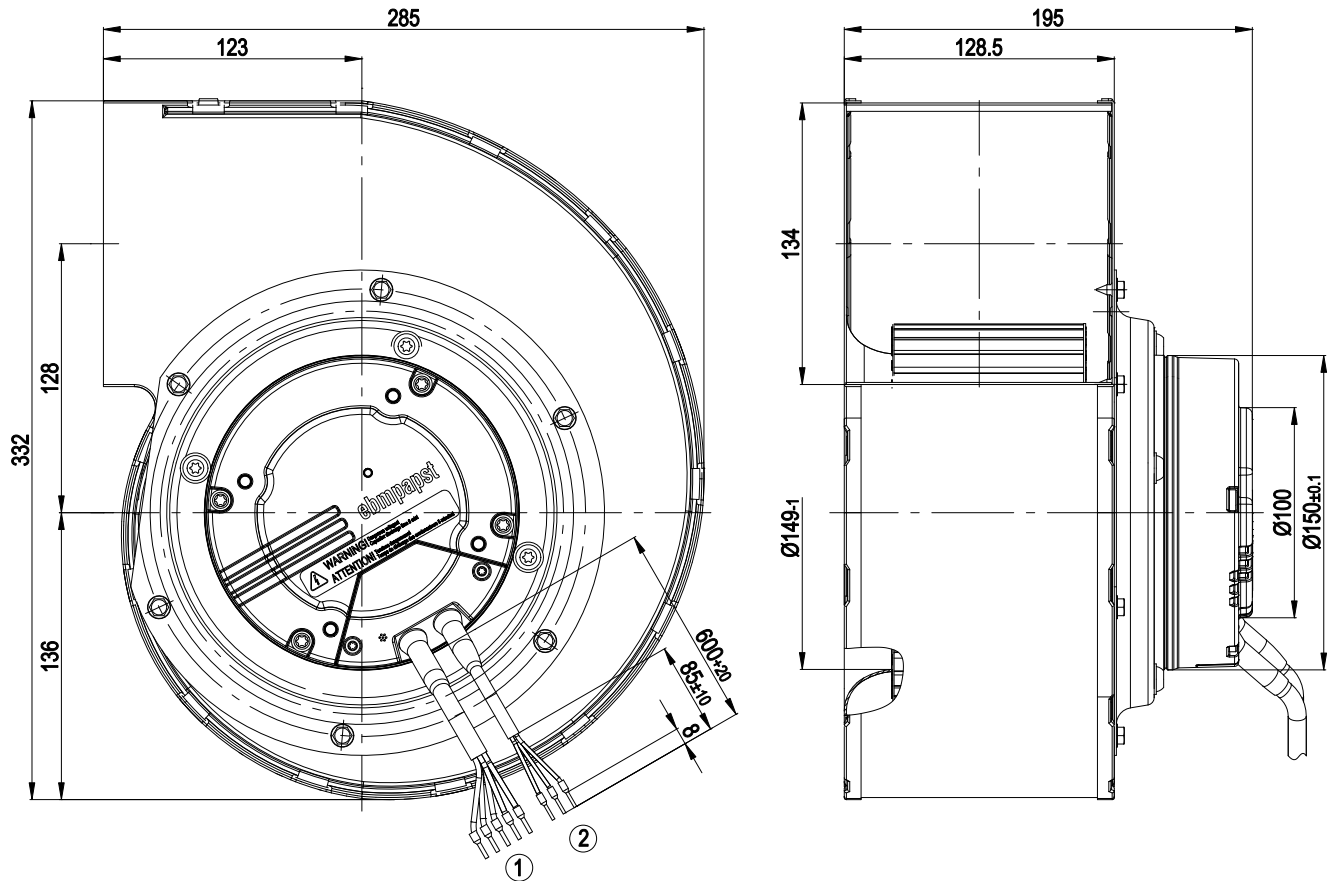
Technical features

Leakage current	<= 3.5 mA
Size	180 mm
Operation mode	S1
Direction of rotation	Clockwise, seen on rotor
Mounting position	Shaft horizontal or rotor on top; rotor on bottom on request
EMC harmonics	Acc. to EN 61000-3-2/3
EMC interference emission	Acc. to EN 61000-6-3 (household environment)
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
Insulation class	"B"
Cable exit	Variable
Condensate discharge holes	None
Bearing motor	Ball bearing
Mass	6.84 kg
Material of electronics housing	Die-cast aluminium
Housing material	Sheet steel, hot-galvanised
Material of impeller	Sheet steel, hot-galvanised
Motor protection	Thermal overload protector (TOP) wired internally
Product conforming to standard	EN 61800-5-1
Surface of rotor	Coated in black
Number of blades	5
Type of protection	IP 44
Protection class	I
Technical features	- Control input 0-10 VDC / PWM - Output 10 VDC, max. 1.1 mA - Over-temperature protected electronics / motor - Alarm relay - Line undervoltage detection - Motor current limit - Soft start
Max. permissible ambient motor temp. (transp./ storage)	80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Approval	CCC; CSA C22.2 Nr.77; UL 2111

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Product drawing



- | | |
|---|---|
| 1 | Connection line AWG 18, 5x crimped core-end sleeves |
| 2 | Connection line AWG 22, 3x crimped core-end sleeves |

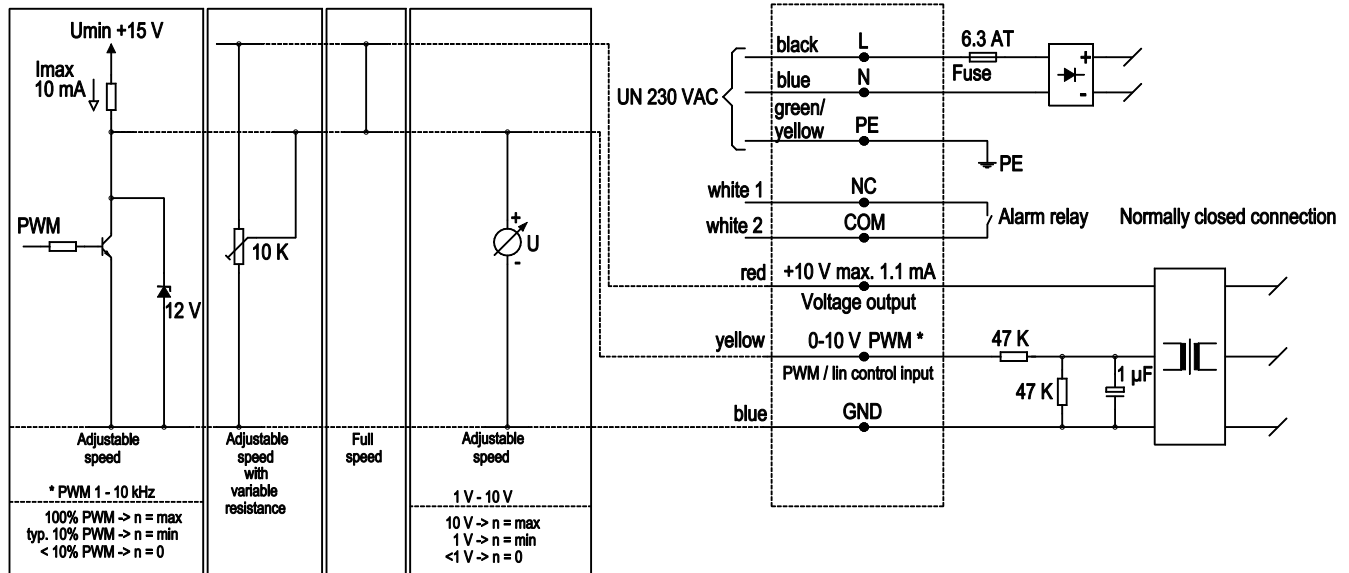
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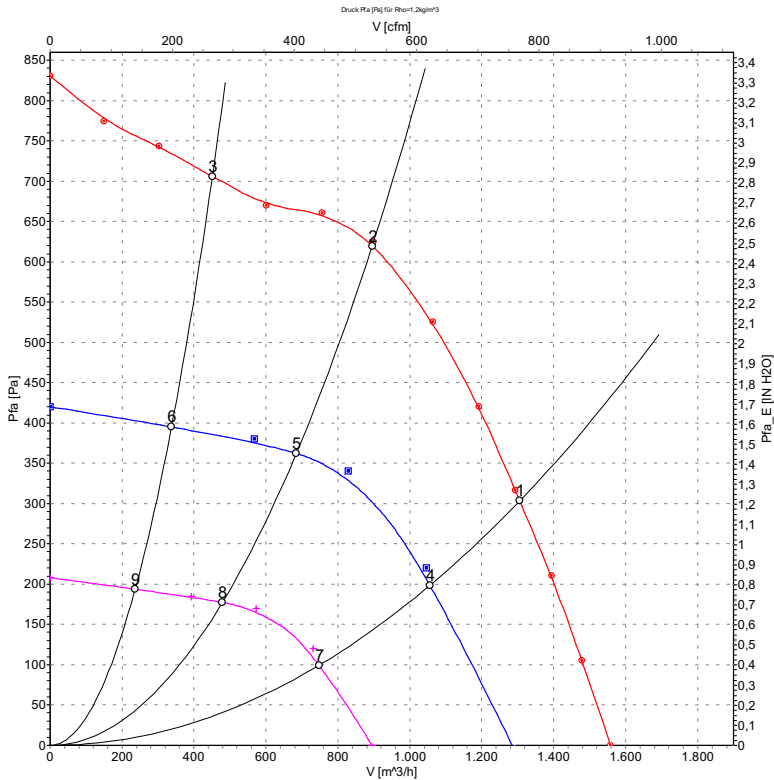
Connection screen

Customer circuit

Notes on various control possibilities and their applications



Charts: Air flow 50 Hz



Measurement: LU-111416
 Measurement: LU-112209
 Measurement: LU-112210

Measured values

	U	f	n	P ₁	I	LpA _{ss}	LwA _{ss}	$\hat{V}$	P _{fa}
	[V]	[Hz]	[min ⁻¹]	[W]	[A]	[dB(A)]	[dB(A)]	[m³/h]	[Pa]
1	230	50	2450	510	3.15	77	82	1305	300
2	230	50	2570	367	2.36	73	79	895	625
3	230	50	2675	239	1.57	73	79	450	700
4	230	50	2000	264	1.77	71	77	1055	212
5	230	50	2000	154	1.07	66	73	685	362
6	230	50	2000	102	0.73	65	72	335	396
7	230	50	1400	94	0.69	62	67	745	108
8	230	50	1400	57	0.43	57	63	480	177
9	230	50	1400	40	0.32	56	62	235	194